

Safety Regulations

ALL EXCAVATION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (MOSHA) STANDARDS AS SET FORTH IN THE LATEST VERSION OF THE CODE OF MARYLAND REGULATIONS

THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING.

THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER. CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT AND ALL DRAWINGS, SPECIFICATIONS, AND QUANTITIES ESTIMATE SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE.

OWNER/CONTRACTOR STATEMENT

I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME BY A REPRESENTATIVE OF THE DISTRICT SOIL CONSERVATION DISTRICT, AND I UNDERSTAND THE CONTENTS, ALL CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND SPECIFICATIONS, I FURTHER UNDERSTAND THAT ALL CONSTRUCTION WILL BE UNDER THE INSPECTION OF THIS OFFICE.

OWNER'S SIGNATURE DATE

CONTRACTOR'S SIGNATURE DATE

CONSTRUCTION NOTIFICATION

The Contractor/Owner is to notify the DISTRICT SOIL CONSERVATION DISTRICT at least 72 hours prior to construction to facilitate any scheduling, layout, or preliminary mobilization necessary to ensure proper construction inspection to enable appropriate certification of the project.

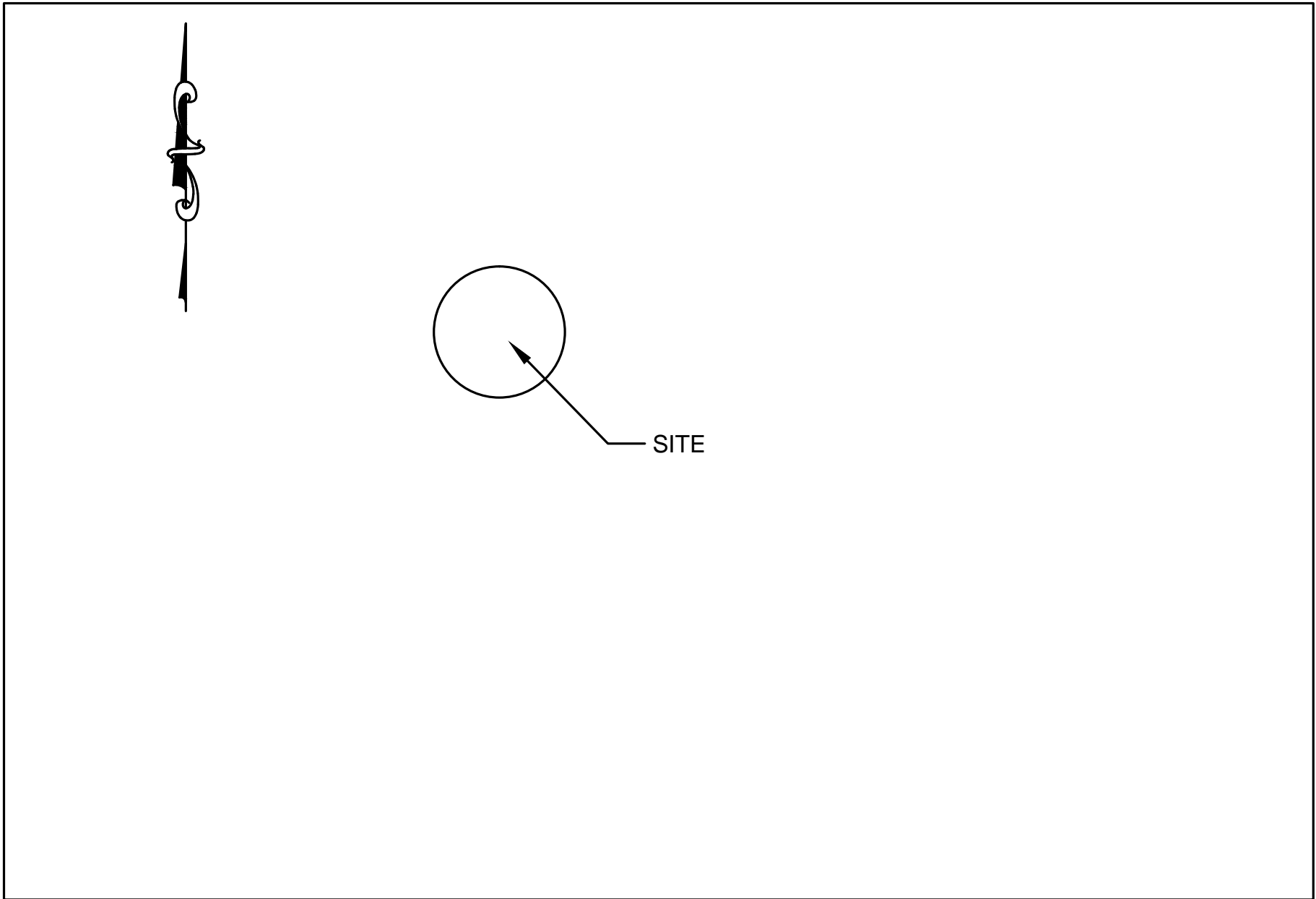
It is the Landowner's responsibility to obtain all County, State, and Federal permits that may be needed, and to maintain this structure and related regulations.

LANDOWNER

316 - ANIMAL MORTALITY FACILITY

561 - HEAVY USE AREA/558 - ROOF RUNOFF STRUCTURE

(DISTRICT SOIL CONSERVATION DISTRICT)



VICINITY MAP  
N.T.S.

CONSTRUCTION NOTES

- Before construction begins contact the District Office for a preconstruction meeting. It is the landowner's responsibility to obtain all necessary permits and to maintain this structure in accordance to those regulations.
- All materials and construction shall be in accordance with applicable NRCS standards and construction specifications.
- All components of the completed system shall conform to the lines, grades, elevations, dimensions and materials shown on the plans.
- Any changes in the plans or specifications must be approved by the original plan approver prior to being made. Changes are to be reviewed by the landowner for concurrence.
- Prevent any sediment from leaving the construction site by installing a silt fence where appropriate.
- Salvage topsoil and fill material and stockpile to use for final grading of the site.
- Clear and grub all areas necessary for the construction of the structure.
- Construct pad for structure. Fill material under the structure shall be placed in maximum 8-inch lifts (before compaction). The lifts shall be compacted by traversing of the entire surface by not less than one track of the equipment or by a minimum of four complete passes with a sheepsfoot, vibratory, or rubber tire roller.
- Construct Composting Facility in accordance with the plan. The finished floor elevation shall be a min. 2' above seasonal high water table.
- Perform final grading of the site. Place fill material around structure in maximum 4-inch lifts (before compaction). Compaction shall be performed at the optimum moisture content with hand tampers or other manually directed compaction equipment. Backfill shall be kept approximately level around all parts of the structure.
- Topsoil all disturbed areas using on-site salvaged topsoil. Apply lime and fertilizer according to specifications. Seed and mulch disturbed areas as specified. All disturbed areas to be stabilized within 14 days of completion.



Know what's below.  
Call before you dig.

\*The Soil Conservation District makes no representation as to the existence or Non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities\*

AS-BUILT STATEMENT

PROJECT MEETS NRCS STANDARDS AND SPECIFICATIONS

INSPECTED BY	SIGNATURE	DATE
CONSTRUCTION APPROVAL	SIGNATURE	DATE
VERIFIED DISTRICT CONSERVATIONIST	SIGNATURE	DATE

GENERAL NOTES:

- PLEASE CONTACT THE DISTRICT SOIL CONSERVATION DISTRICT AT LEAST 3 DAYS PRIOR TO CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING @ PHONE #
- A CONSERVATION TECHNICIAN SHALL VERIFY CUT/GRADE STAKES AT THE CONTRACTORS REQUEST

CRITICAL INSPECTION ITEMS  
(Roofed Waste Poultry Animal Mortality Facility)

- The landowner will arrange for a pre-construction meeting between the contractor, NRCS and landowner to review the plans, standards and specifications prior to the start of construction.
- There will be no changes in specifications, dimensions, or materials unless approved by the engineer responsible for this drawing.
- The drawings are prepared cooperatively by the Natural Resources Conservation Service for named owner/operator. Construction found not in accordance with these drawings and specifications shall violate the cooperative agreement and all drawings, specifications, and Quantities Estimate shall immediately be returned to the local NRCS office.
- The following is a list of items that must be inspected by the Technician-in-Charge. If cost share is involved, payment may be forfeited if the Technician-in-Charge does not inspect all of the below:
  - Preconstruction Meeting Date: Initials:
  - Verify layouts: Date: Initials:
  - Verify all subgrades: Date: Initials:
  - Verify all subgrade materials CR-6 etc: Date: Initials:
  - Verify reinforcing steel grade, size and placement: Date: Initials:
  - Footings: Date: Initials:
  - Walls and/or curbs: Date: Initials:
  - Floor: Date: Initials:
  - Inspect all concrete in accordance with specifications: Date: Initials:
  - Footings: Date: Initials:
  - Walls and/or curbs: Date: Initials:
  - Full dimension wall ties: Date: Initials:
  - Floor: Date: Initials:
  - Proper curing of concrete: Date: Initials:
  - Patching wall ties, holes and honeycombing: Date: Initials:
  - Roof inspection in accordance with plans: Date: Initials:
  - Posts size, material and installation: Date: Initials:
  - Preservative treatment or use code: Date: Initials:
  - Anchors or embedment installation: Date: Initials:
  - Header size, material and installation: Date: Initials:
  - Hardware size, spacing, and type: Date: Initials:
  - Knee brace (post to truss) size and material: Date: Initials:
  - Hardware size, spacing, and type: Date: Initials:
  - Y brace (post to header) size and material: Date: Initials:
  - Hardware size, spacing, and type: Date: Initials:
  - Hurricane straps: Date: Initials:
  - Received/reviewed truss design sheet: Date: Initials:
  - Purlins material and installation: Date: Initials:
  - Hardware size, spacing, and type: Date: Initials:
  - Roofing, material and installation: Date: Initials:
  - Hardware size, spacing, and type: Date: Initials:
  - Backfill placement and compaction: Date: Initials:
  - All disturbed areas seeded and mulched: Date: Initials:
  - Other items shown on the plans: Date: Initials:

DESIGN NOTE:

A site-specific design, in addition to the pre-qualified drawing is required. The site-specific design shall include a location map, plan view, dimensions, soil conditions, high water table, drainage components, and construction specifications needed to complete the project.

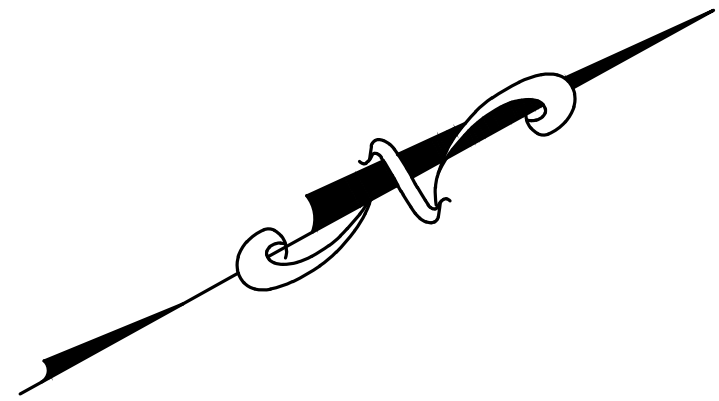
ROOFING CONSTRUCTION NOTE:

Roofing material must be stored properly in accordance with the manufacturer's recommendations. Roofing material must be covered if it is stored outside to prevent premature deterioration.

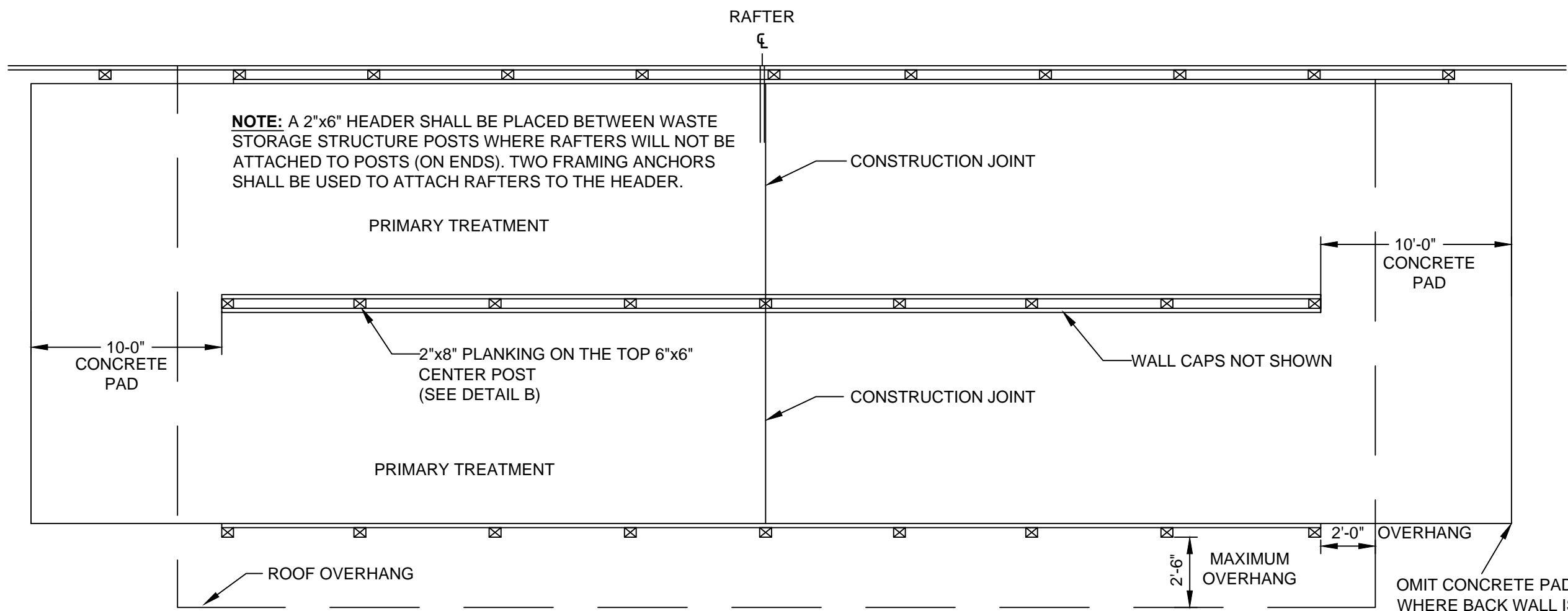
Aluminum roofing may be used in lieu of steel. Roof shall be designed considering expansion and contraction and compatibility with other metals. The aluminum roofing shall have a minimum thickness of 0.018 inches and a maximum sheet length of 16 feet. Joints shall overlap a minimum from ridge to reidge and fastened with stainless steel screws. The fastener holes shall be drilled and slotted and neoprene washers used.

MATERIALS LIST

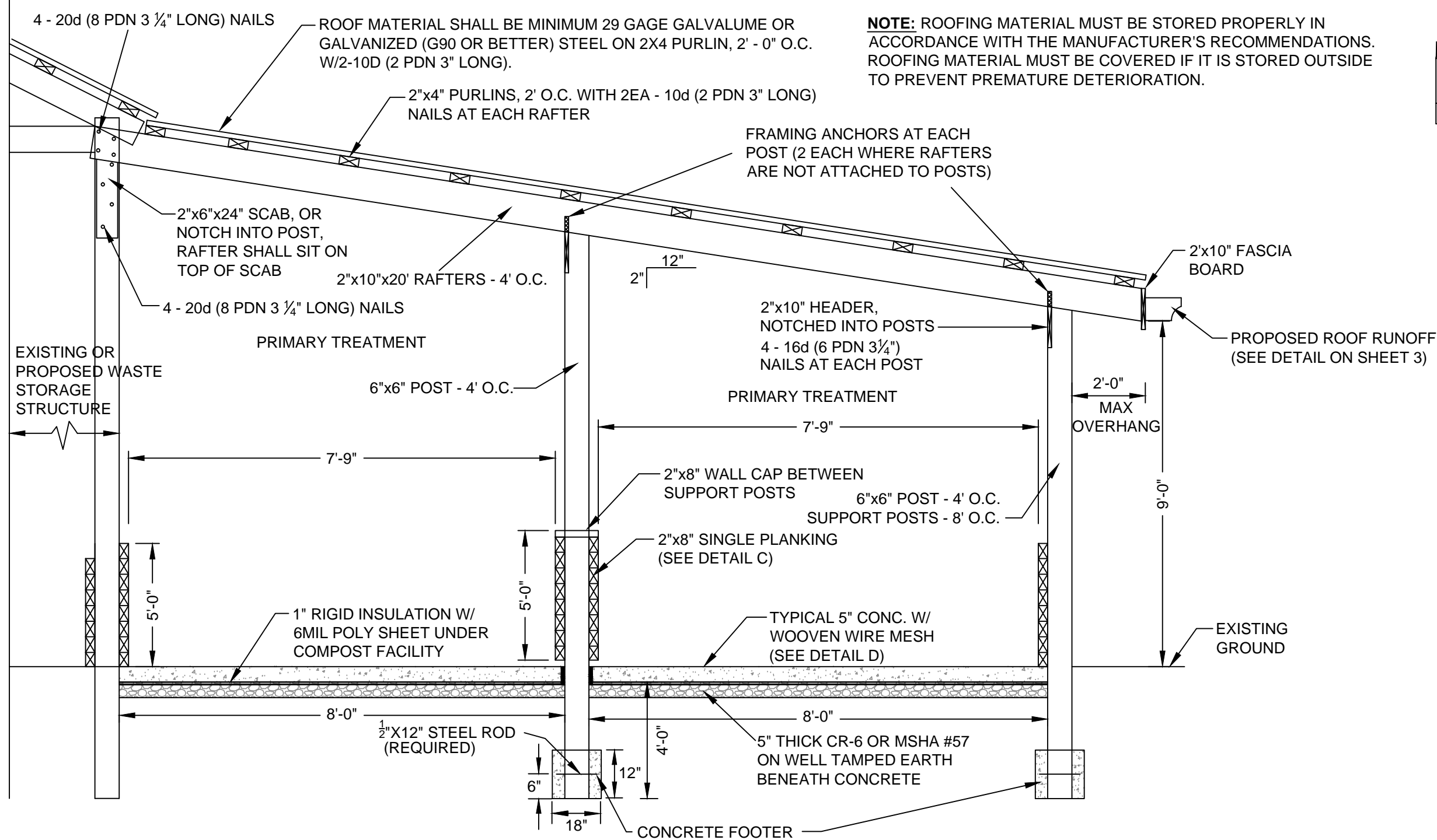
MM/YY	Designed	LANDOWNER	316 ANIMAL MORTALITY FACILITY (ATTACHED CHANNEL W/ PUSH WALL) TRACT City, Maryland	Approved	Date	Class
	Drawn					
	Checked					
United States Department of Agriculture			Maryland Department of Agriculture		District Soil Conservation District	
Natural Resources Conservation Service						
REVISIONS						
Date	Description					
Approved						
File No. *.DWG						
Sheet 1 of 5						



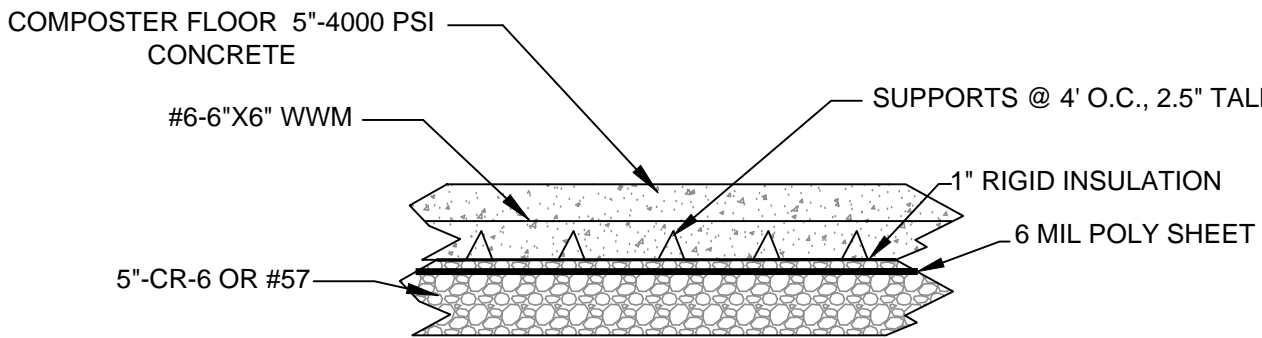
PLAN VIEW



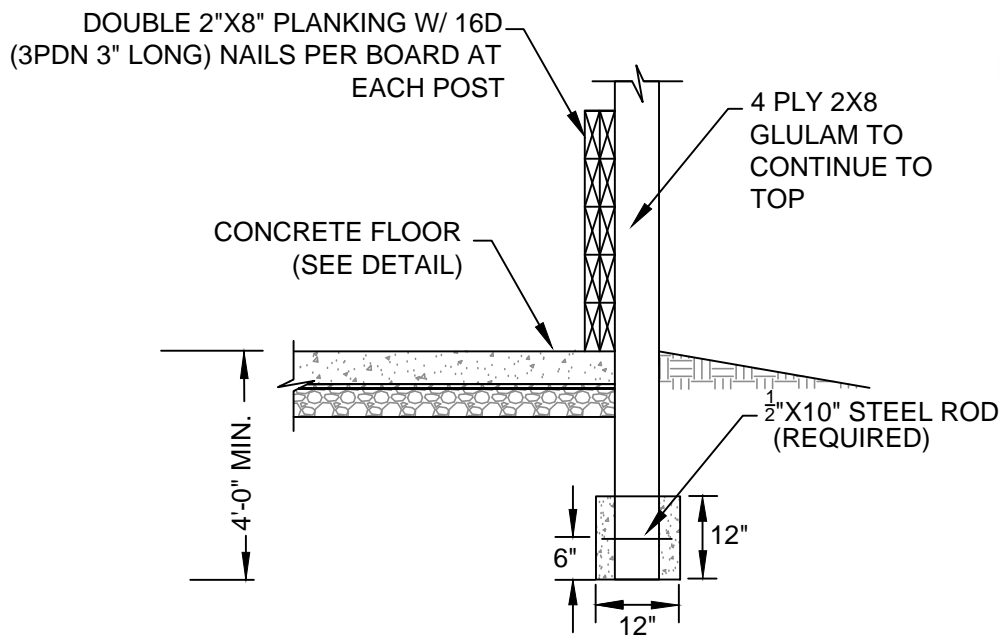
PLAN VIEW  
NOT TO SCALE



ELEVATION  
NOT TO SCALE



FLOOR DETAIL  
DETAIL D  
NOT TO SCALE



BACK PUSH WALL  
DETAIL  
NOT TO SCALE

CONCRETE CONSTRUCTION SPECIFICATIONS  
FLAT WORK ONLY  
Revised 4114

- All materials and construction shall be in accordance with applicable NRCS Practice Standards and ACI-318.
- Any changes in the plans or specifications must be approved by the design approver prior to being made. Changes are to be reviewed by the landowner for concurrence.
- Concrete shall have Type IA or IIA cement, 28-day compressive strength of 4,000 psi, 5% air entrainment and a slump of 3 to 5 inches. Air entrainment admixtures shall conform to ASTM C260.
- Reinforcing steel shall conform to ASTM A615, Grade 60 steel. All reinforcing material shall be free of dirt, loose rust, scale, oil, paint or other coatings. The steel shall be accurately placed into position, as shown on the plans, and securely restrained and blocked into position prior to placement of concrete. Insertion of steel into fresh concrete is not permitted. Reinforcement steel shall have a minimum of 2 inches of concrete cover against all forms and 3 inches against soil, unless otherwise shown on the plans. All other reinforcement steel splices shall overlap a minimum of 18 inches. Welded wire mesh shall conform to ASTM A1064 and overlap a minimum of 6 inches. The welding of reinforcing steel is not permitted.
- Waterstop will be used as shown on the plans and at all cold and construction joints. The type of waterstop will be approved by the field technician prior to use.
- Plasticizing or plasticizing and retarding admixtures may be used and shall conform to ASTM C1017 or ASTM C494 Types F or G.
- Concrete shall be delivered to the site and discharged completely into the forms within 90 minutes after the truck leaves the plant. This time shall be reduced to 45 minutes when the atmospheric temperature is over 90° F. The concrete shall be maintained at a temperature below 90° F during mixing, conveying and placement. Set retarding admixtures may be used to increase mixing time. Water reducing and/or retarding admixtures shall conform to ASTM C494 Types A, B, D, F or G.
- Concrete shall not be placed when the daily minimum atmospheric temperature is less than 40° F unless facilities are provided to prevent the concrete from freezing. The concrete shall be protected from freezing for a minimum of 7 days or the concrete shall be kept at a temperature of 55° F for a minimum of 3 days. Accelerating or water-reducing and accelerating admixtures shall be noncorrosive and conform to the requirements of ASTM C494, Types C and E. Cold weather concreting procedures shall conform to ACI-306.
- Concrete shall be kept continuously moist for the curing period after the placement of the concrete. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may be used in lieu of the application of moisture. Curing compounds shall conform to ASTM C309, type 2.
- Concrete surfaces shall be screeded, floated, troweled and broom finished unless otherwise approved.
- Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with quickset, non-shrink hydraulic cement.

TIMBER CONSTRUCTION NOTES

1/2012

- All lumber below the fascia board level shall be preservative pressure treated Southern Yellow Pine, No 2 KD, 19% m.c. or better. All other lumber may be either Southern Yellow Pine or Spruce-Pine-Fir No. 2 or better unless specified otherwise. Protection such as clear preservative, paint, or pressure treatment shall be required for the plywood. Timber shall be pressure treated in accordance with the chart below.

Use Codes for Treated Building Materials	
Use Code for Ground or Manure Contact Lumber	UC4B
Use Code for all other Treated Lumber	UC4A

- There may be additional products (other than stainless steel and hot-dip galvanized) which are suitable for use in treated wood except for the types listed in the note above. These screws and connectors have proprietary anti-corrosion technologies and are acceptable for treated wood exposed to moisture when used according to the hardware manufacturer's recommendations and **must be clearly marked "for use with" the type of treated wood being used.**
- All structural nail connections must be nailed with twisted or ring shank nails.
- Power driven nails (PDN) shall be 0.131 Diameter or larger, deformed shank, and helical (spiral) or annular (ring) type. The number and length of 0.131 diameter power driven nails is specified in parenthesis next to each connection. Pressure shall be applied to wood members to insure tight joints when using power driven nails. The head of the nail may not be countersunk more than 1/16" into the wood.

Truss Design Notes

Trusses shown on the drawings are for illustration purposes only. Trusses shall be designed and approved by a licensed engineer. Truss manufacturer shall furnish all drawings for bracing required on trusses. Scissors trusses are acceptable with a level bearing plate.

Truss Design:

Span: 17' 6"  
Slope: 5 in 12  
Truss Spacing: 4' 0" on center  
Overhang: 2'-6"  
Gable end trusses shall be sheathed

Truss Loadings (Minimum loadings are shown below, County may require higher loads)

Top chord Live Load, see listing below, Dead Load 5 psf  
Bottom chord Live Load 0 psf, Dead Load 5 psf

Garrett, Allegany, and Washington counties:

Top chord Live Load 28 psf

Frederick east to Harford counties including southern Maryland counties:

Top chord Live Load 21 psf

Cecil county and Eastern Shore counties:

Top chord Live Load 16 psf

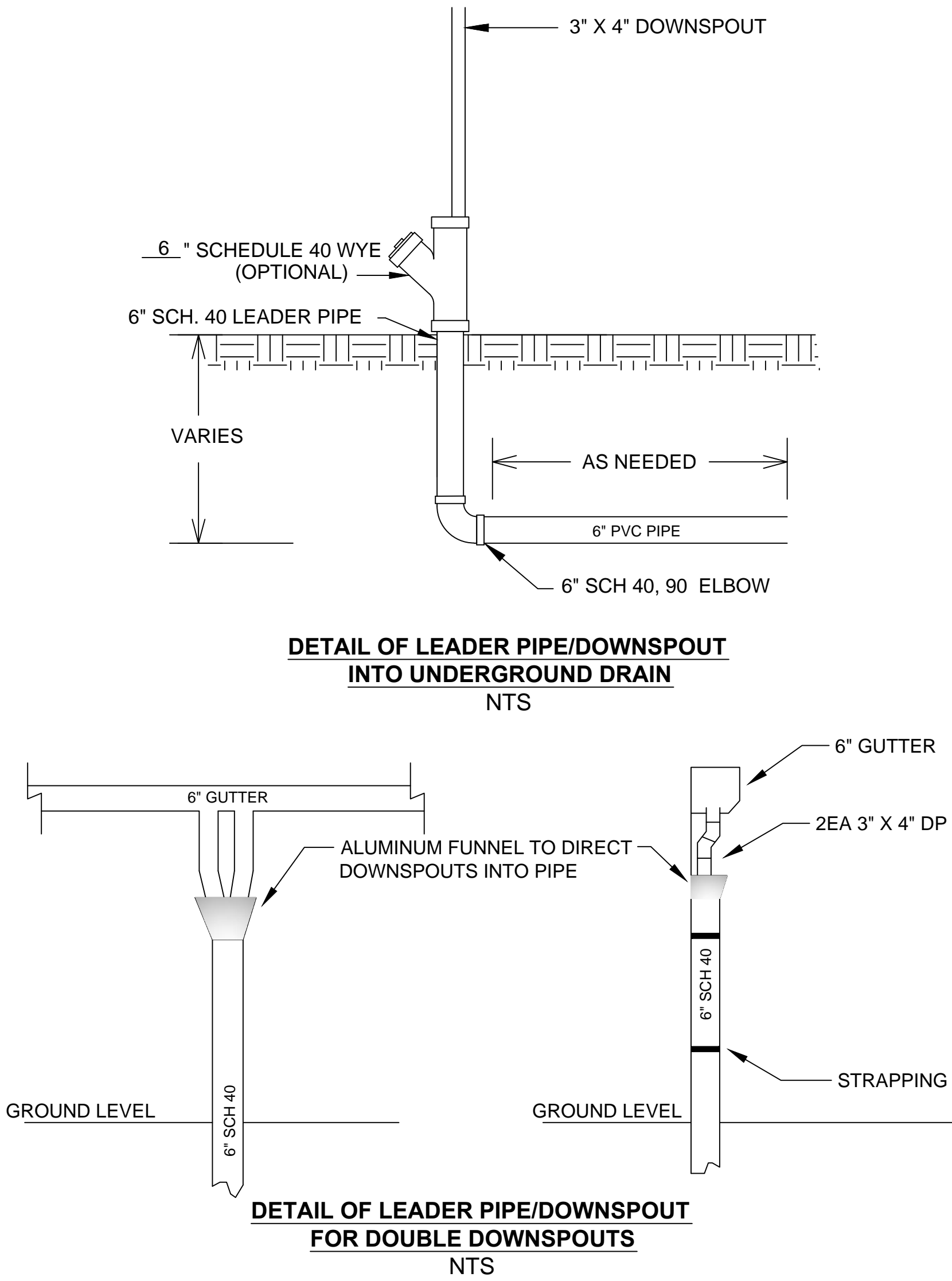
Length	# of Breeders/Roasters Up to	# of Broilers Up to
16'	85,000	105,000
24'	145,000	180,000
32'	205,000	260,000

Note: Sizing Chart is based on Chapter 10 Ag. Waste Handbook, VF = 1.75

MM/YY	Designed	Drawn	Checked	Approved	Date	Job	Class
316 ANIMAL MORTALITY FACILITY (ATTACHED CHANNEL W/ PUSH WALL) City, Maryland	LANDOWNER						
United States Department of Agriculture	Maryland Department of Agriculture	Natural Resources Conservation Service					
REVISIONS	Date	Description	Approved				
File No.	*.DWG						
Sheet 2	of 5						

GUTTERS: ALL GUTTERS ARE 6"	
ROOF 1	1"3/4 IN 49'
ROOF 2	1"1/4 IN 49'
ROOF 3	2" IN 51'
ROOF 4	2" IN 28'
ROOF 5	1" IN 40'
ROOF 6	1" IN 40'
ROOF 7	1 1/2" IN 61'
ROOF 8	1 1/4" IN 61'



GUTTER/DP SPECIFICATIONS  
PLAN VIEW



ROOF GUTTER CONSTRUCTION SPECIFICATIONS

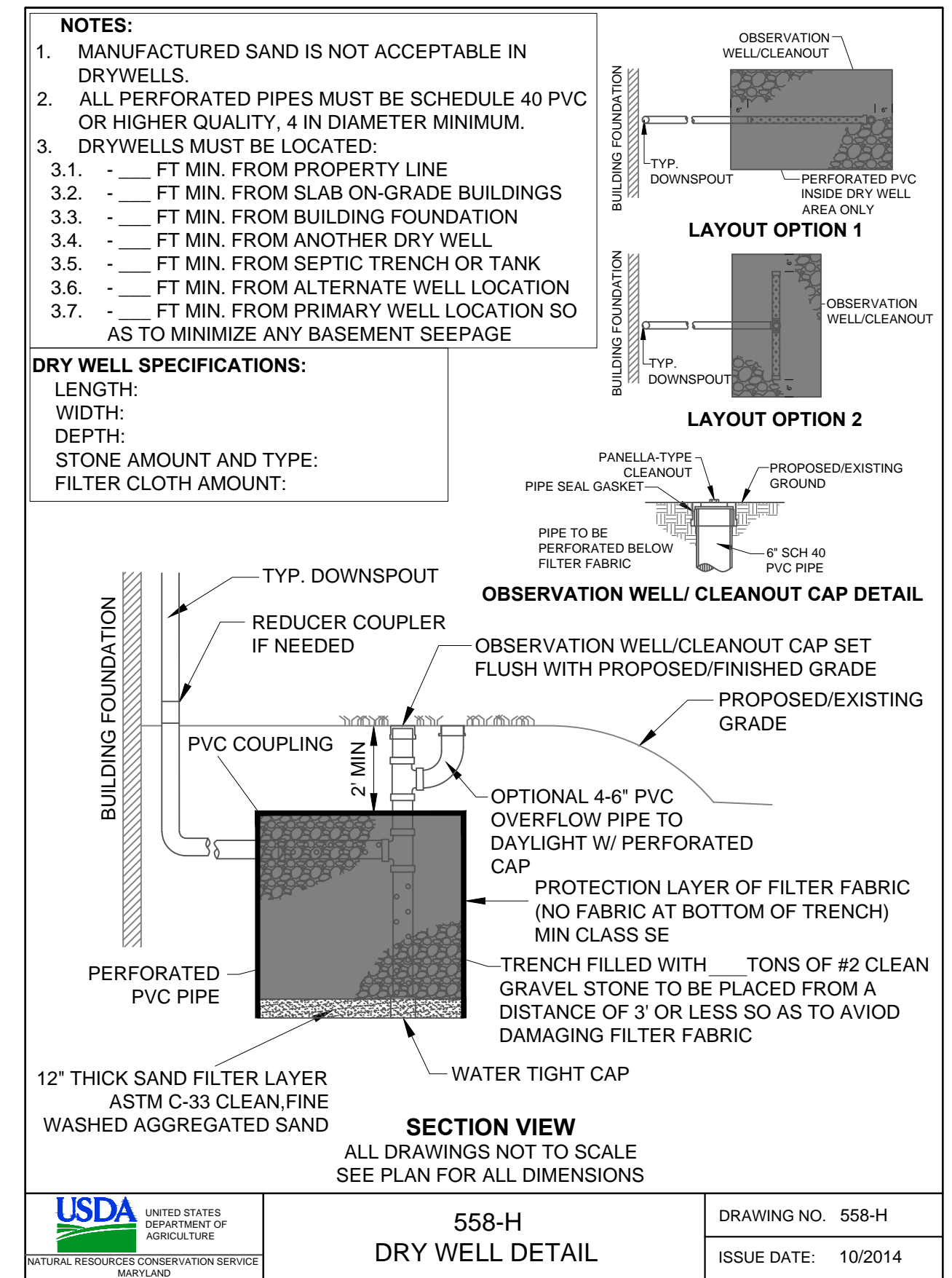
1. All materials and construction shall be in accordance with applicable NRCS standards and construction specifications.
2. All components of the completed system shall conform to the lines, grades, elevations, dimensions and materials shown on the plans.
3. Any changes in the plans or specifications must be approved by the original plan approver prior to being made. Changes are to be reviewed by the landowner for concurrence.
4. All disturbed areas shall be fertilized, seeded, and mulched or otherwise stabilized as required on the construction plans.
5. Existing fascia boards that are damaged, rotten, otherwise unstable or with a nominal thickness less than 2 inches, shall be replaced.
6. Rafter ends that are damaged or rotted shall be repaired.
7. All lumber used for fascia boards or for rafter end repair shall have a nominal thickness of 2 inches. Cover all fascia boards with aluminum or vinyl flashing or paint before the roof gutter is installed.
8. Down spout outlet connections shall be the manufacturer's preformed (insert) outlets for the given size shown on the design, unless otherwise approved.
9. Aluminum gutters and downspouts shall have a minimum thickness of 0.027 inch.
10. Galvanized steel gutters and downspouts shall have a minimum thickness of 28 gage.
11. Where animals or equipment may come in contact with downspouts, steel pipe, schedule 40 PVC or similar material will be used for the downspout.
12. Roof gutter supports shall have a maximum spacing of 24 inches unless otherwise approved. Roof gutters shall be mounted to the fascia board using hidden hangers, bolts and ferrules, gutter screws and ferrules, or cradles. Other methods must be approved by the engineer. **Spike and ferrules are not approved.**
13. Itemized invoices from suppliers shall be provided to verify gutter and downspout size, length, material, material gage, and hanger type.
14. The Soil Conservation District makes no representation as to the existence or nonexistence of any utilities at the construction site. Shown on these construction drawings are those utilities, which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities. Miss Utility should be contacted at 1 800-257-7777.

REVISIONS	Date	Description	Approved
File No. *.DWG			
Sheet 3 of 5			

 United States Department of Agriculture	LANDOWNER  316 ANIMAL MORTALITY FACILITY (ATTACHED CHANNEL W/ PUSH WALL) City, Maryland TRACT	Designed	MM/YY
		Drawn	
		Checked	
 Natural Resources Conservation Service		Approved	
		Title	
		Date	
Maryland Department of Agriculture District Soil Conservation District		Job	
		Class	

UNDERGROUND PIPING: ALL PIPES ARE SCH 40 UNLESS NOTED	
M1	0+00-0+80 4" 3-2" FALL
L1	0+00-0+10 4" 0-1" FALL
M1	0+80-1+20 6" 0-4" FALL
L2	0+00-0+10 4" 0-2" FALL
M1	1+20-1+75 6" 1-1" FALL
L3	0+00-0+50 4" 1" FALL
M1	1+75-2+65 6" 2-7" FALL
M2	0+00-1+10 4" 3-3" FALL
L4	0+00-0+10 4" 0-2" FALL
M2	1+10-1+75 6" 0-5" FALL

LANDOWNER TRACT				PRACTICE(S)			
TOTAL AREA		AREA 1		AREA 2		AREA 3	
MATERIALS/RATE	AMOUNT PLANNED	AMOUNT APPLIED	AMOUNT PLANNED	AMOUNT APPLIED	AMOUNT PLANNED	AMOUNT APPLIED	
FERTILIZER 10-20-20 500LBS/AC							
LIME - 2TONS/AC DOLOMITIC							
SEED MIXTURE (SEE BELOW)							
MULCH							
2 TONS/AC							
ENTER KINDS AND AMOUNT OF SEED BELOW				NOTE: INOCULATE ALL LEGUMES			
AREA 1 NRCS SEED MIX #		AREA 2 NRCS SEED MIX #		AREA 3 NRCS SEED MIX #			
SITE PREPARATION AND OTHER PERTINENT INFORMATION: DISK ALL DISTURBED AREAS TO A DEPTH OF 4-6" CULTIPACK AFTER SEEDING				SEEDING DATES <b><i>SPRING:</i></b> <b><i>FALL:</i></b>			
PLAN APPROVED BY:			CHECKED FOR TECHNICAL COMPLIANCE BY:				
DATE			DATE				
 UNITED STATES DEPARTMENT OF AGRICULTURE  NATURAL RESOURCES CONSERVATION SERVICE MARYLAND			SEEDING		DRAWING NO. S-1.0  ISSUE DATE: 7/2014		

[illegible]

